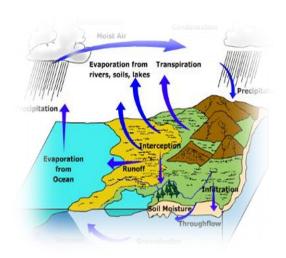


The following activities may be used to reinforce learning of information covered in the Facility Runoff Control Plan video.



Positive v. Negative

This video covered all of the reasons why the agency should comply with the Facility Runoff Control Plan. This team challenge is to show that for every reason the crew may think of NOT to comply there is a positive reason TO comply.

- Divide the room into two teams. Determine which team will start. (flip of a coin, etc)
- Starting team will state a work-related negative about the Facility Runoff Control Plan. The other team must respond with a positive.
- The team that stated a positive, then states a negative (that has not been used) challenging the other team to come up with a positive.
- This continues until one team cannot come up with a positive. When this happens, the other team wins.
- Below are some possible negatives with positive responses.

Note: If the teams have many members, they will determine the order in which they are going to accept the challenge. (I.e. who is first to bat.) Once they have had their turn, they go to the back of the line.

	Negative	Positive				
Nutrients	What is the difference between hosing and sweeping? It takes time to measure, what difference does an ounce make?	Phosphorous and nitrogen in lakes and streams lead to toxic algal blooms negatively impacting the food chain. Leaves and Grass clippings are a source.				
Oil and Grease	Time it takes to clean up spills. Hidry is too messy. We have an oil and water separator, it does not matt	Keeps water drinkable. Prevents cancer as even small quantities may cause it. Staining is limited. Prevents slips and falls. Keeps facility looking nice. Keeps oil and grease out of storm water.				
Pathogens	You cannot stop birds from crapping all over. I do not know how often I have to check the septic tank. It stinks. I do not know who does this in our area. Nobody else does it anyway.	Pathogens come primarily from human and animal wastes and can cause disease. Improperly maintained septic systems may introduce these wastes into our water.				
Certification training for pesticide use.	The test is hard. You want me to sit in a classroom when there is work to be done. I never learn anything.	The toxic nature of the chemicals in pesticides damage water resources. Training and certification of proper use and disposal help protect you and our natural resources.				
Sediment	We do not have a sweeper or broom in this yard. Dirt is everywhere, it does not matter. Our yards have dirt anyway.	Over time, sediment ends up in our waterways and accumulates there, along with all the other pollutants it carried.				
Salt Piles	Cannot predict how much salt will be needed.	Excess could end up in right-of-ways, across facilities, in waterways.				

Best Management Practices

This team challenge is to become familiar with BMP's and stimulate ideas for new ones.

- Divide the room into two teams.
- Determine which team will start. (flip of a coin, etc)
- Starting team will state a work situation such as oil spill. The other team must respond with a BMP.
- The team that stated a BMP will then state a situation (that has not been used) challenging the other team to come up with a BMP.
- This continues until one team cannot come up with a BMP. When this happens, the other team wins.

Note: If the teams have many members, they will determine the order in which they are going to accept the challenge. (I.e. Who is first to bat.) Once they have had their turn, they go to the back of the line.

The table below is a tool you may choose to use. You may choose to take each situation listed and print/type it on a card. When it is a team's turn to come up with a situation, they could draw from the deck, etc.

Situation	ВМР
Chemicals	Labeling - Everything should be labeled
Storage	Location -Risk of discharge outdoors. Tracked into the path of storm water.
Oil Spill	Leaking-Use an oil pan, absorbent pad, sock or material to contain the leak.
Outside Storage of	Lids- Lids keep materials in their designated area and properly labeled container. If
Barrels	it does not have a lid and needs to be stored outside, turn it upside down so rainwater cannot enter.
Salt Pile	Less- Only order materials you need. Excess could end up in right-of-ways, across facilities, in waterways. Reduce stockpiles.
Erosion	Inspect soil and gravel areas to locate erosion and off-site discharge of sediment or aggregate that needs to be prevented.
Oil-Water Separator	Keep oil-water separators clear of build-up r
Backed up Drain	Keep floor drains clear of build-up or debris to ensure proper drainage.
Fertilizer spill	Use dry cleaning methods such as sweeping instead of water cleanup, when possible
Vehicle & Equipment Maintenance & Repair	Do not repair or maintain vehicles and equipment near drain inlets, catch basins, or outfalls.
Vehicle & Equipment Fueling	Park vehicles and/or equipment close to the pump when refueling.
Vehicle &Equipment	Wash vehicles in areas away from drain inlets, catch basins, outfalls, and areas that
Washing	are prone to flooding or ponding.
Parked vehicle &	Keep parts, equipment and vehicles stored indoors or within designated outdoor
equipment storage	areas away from storm drains, inlets, or catch basins.
Stockpiled Materials	Locate raw material stockpiles away from drain inlets, catch basins, and outfalls.
Weed & Pest	Sweep up loose product that is outside of designated area to prevent tracking.
Management	Store and dispose of pesticides and fertilizers per manufacturer's instructions and
Chemicals	any state requirements.
Paints, Adhesives,	When receiving new product materials, check drums, tanks and containers for
Solvents	leaks.
Petroleum, oils & fluids	Close containers between filling and emptying events.
Aboveground and	Inspect storage tanks, pumps, pipes and valves for leaks, signs of corrosion,
underground storage	support or foundation failure, or other deterioration. Inspect paved surfaces near
tanks.	tanks for visible signs of residue. Cleanup fuel or oil on surfaces by grinding
	absorbent into the surface and sweeping up material.
Waste Materials	Label all waste receptacles according to waste type.
Construction Salvage	Develop a plan to reuse or dispose of construction salvage as soon as material is brought on-site.
Recyclables	Store batteries in an upright position in leak-proof covered containers. Schedule regular pick-ups for waste tires, scrap metal, used oil, used antifreeze and other waste intended for recycling.

Matching

Select the correct type and information for each subject. (Answer Key)

This could be set up as an individual or group activity. 5-7 minutes would be a reasonable amount of time to complete this. The individual/team with the most correct answers will win.

Subject	Types	Information
Pathogens	human and animal wastes	Improperly maintained septic systems.
Nutrients (phosphorus and	Fertilizers, dead leaves, grass	Cause toxic algal blooms. Effects
nitrogen)	clippings	human skin, liver and nervous systems.
Sediment	Natural and human made. Rock,	Carried by Storm Water. Number 1
	clay, dirt	pollutant to Nebraska waterways.
Oil and Grease	drips, spills, leaks, tank failure	1 tbsp to 10,000 gallons water makes water undrinkable. Small quantities cause cancer.
Salt and Pesticides	toxic chemicals and sodium chloride	The less we use the better
Pollution	toxic chemicals, trash, metals, chlorides, pesticides, battery acid	Anything that gets into the environment for a purpose other than what it was intended for.
Non-Point Source	pollutants that come from everywhere	40% of all impaired waters are affected solely by this
Storm Water Runoff	Precipitation or snowmelt moving through the ground	Degrades the nation's waters more than industry.
Salt Piles	Chlorides. Store in sheds.	Cover when loading is done. Reduce toward end of winter operations.
Antifreeze	Heavy metals. Silicates	Place in labeled 55-gallon drum. Illegal to place down the drains
Qualified Facility Inspector	Controls facility runoff/non-point sources. Identified by Maintenance Superintendent	Completes form every 30 days. Have adapted FRCP
MS-4	Municipal Separate Storm Sewer System	population base of 10,000 or greater
NPDES	National Pollutant Discharge Elimination System	System to eliminate discharge pollutants.
FRCP	Facility Runoff Control Plan	Supports NDOR State-wide storm water management program.
BMPs	Can be referred to as personal Actions	Prevention, Calibration, common sense
CWA	Clean Water Act	Intent of the legislature to protect waters of the United States
EPA	Federal Regulatory Environmental Agency	Enforcement is on the upswing. Ability to impose fines.
Point Source	Pipe. Drain. Inlet. Septic system.	Defined industry and Agriculture.
NDEQ	State Environmental Regulatory Agency	NDOR submits annual reports to this agency.

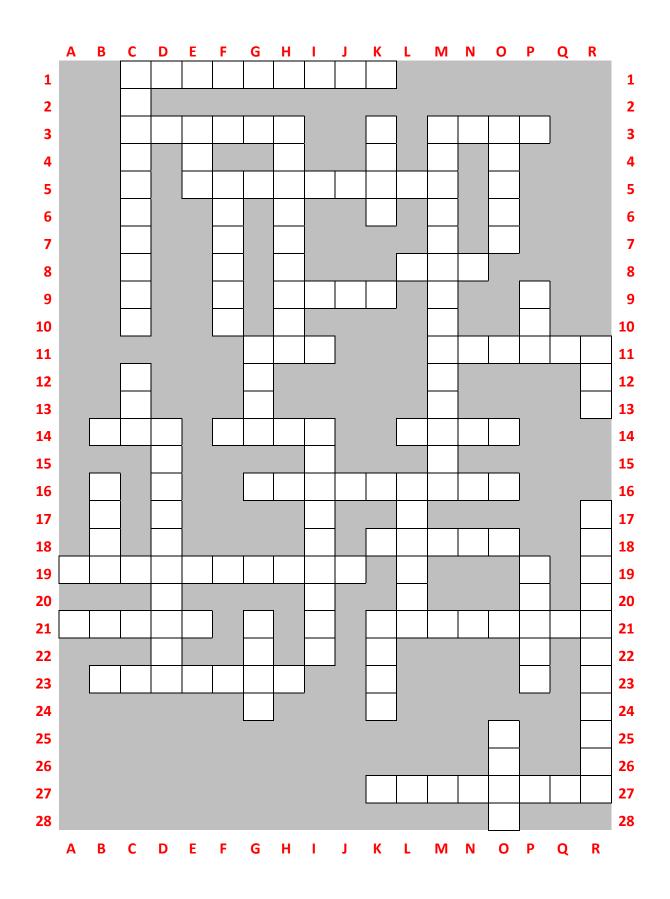
Matching

Select the correct Type and Information for each subject.

*	#	Subject * Types		*Types	#	#Information
		Oil and	Α	human and animal wastes	1	The less we use the better
		Grease				
		NDEQ	В	pollutants that come from everywhere	2	40% of all impaired waters are affected
		Storm Water		Procinitation or snowmalt maying through	3	solely by this 1 tbsp to 10,000 gallons water makes
		Runoff	С	Precipitation or snowmelt moving through the ground	3	water undrinkable. Small quantities
		Kulloff		the ground		cause cancer.
		Sediment	D	drips, spills, leaks, tank failure	4	Carried by Storm Water. Number 1
						pollutant to Nebraska waterways.
		Antifreeze	E	Fertilizers, dead leaves, grass clippings	5	Cause toxic algal blooms. Effects human
						skin, liver and nervous systems.
		Qualified	F	toxic chemicals and sodium chloride	6	Anything that gets into the environment
		Facility				for a purpose other than what it was intended.
		Inspector Pollution	G	toxic chemicals, trash, metals, chlorides,	7	population base of 10,000 or greater
		Pollution	"	pesticides, battery acid	/	population base of 10,000 of greater
		NPDES	Н	National Pollutant Discharge Elimination	8	System to eliminate discharge
				System		pollutants.
		FRCP	I	Facility Runoff Control Plan	9	Supports NDOR State-wide storm water
						management program.
		BMPs	J	Can be referred to as personal Actions	10	Place in labeled 55-gallon drum. Illegal
		CIA/A	1/	Control for ility man off / on a point or and	11	to place down the drains
	CWA EPA		K	Controls facility runoff/non-point sources. Identified by Maintenance Superintendent	11	Intent of the legislature to protect waters of the United States
			L	Federal Regulatory Environmental Agency	12	Enforcement is on the upswing. Ability
			-	reactar regulatory Environmental Agency	12	to impose fines.
		Point Source	М	Pipe. Drain. Inlet. Septic system.	13	Defined industry and Agriculture.
		Non-Point	Ν	Natural and human made. Rock, clay, dirt	14	NDOR submits annual reports to this
		Source				agency.
		Salt and	0	Chlorides. Store in sheds.	15	Prevention, Calibration, common sense
		Pesticides	<u> </u>			
		Nutrients	P	Clean Water Act	16	Completes form every 30 days. Have
	(phosphorus and nitrogen)					adapted FRCP
		Salt Piles	Q	Municipal Separate Storm Sewer System	17	Improperly maintained septic systems.
		Pathogens	R	State Environmental Regulatory Agency	18	Degrades the nation's waters more than
		3		-3 , 3 ,		industry.
		MS-4	S	Heavy metals. Silicates	19	Cover when loading is done. Reduce
						toward end of winter operations.

Answer Key

	Α	В	С	D	Ε	F	G	Н	1	J	K	L	M	N	0	Р	Q	R	
1			С	Н	Ε	M	1	С	Α	L	S								1
2			0									_							2
3			L	Α	В	Е	L	S			R		N	Р	D	S			3
4			L		M			Α			Α		0		R				4
5			Е		Р	0	L	L	U	Т	1	0	N		Α				5
6			С			Х		Т			N		Р		ı				6
7			Т			Υ		Р					0		N				7
8			1			G		1				0	1	L		•			8
9			0			Ε		L	-1	D	S		N		•	М			9
10			N			N		Е				•	Т			U			10
11				_			M	S	4				S	L	U	D	G	Ε	11
12			M				Α			_			0					Р	12
13			0				S						U					Α	13
14		С	W	Α		S	K	1	N			F	R	С	Р				14
15				N		,			U			,	С			•			15
16		D		Т			P	Α	Т	Н	0	G	Ε	N	S				16
17		- 1		I					R		-	R						Р	17
18		R		F					- 1		S	Е	w	Е	R			0	18
19	S	Т	0	R	M	w	Α	Т	Е	R		Α				С		1	19
20				Е					N		_	S				L		N	20
21	Т	R	Е	Ε	S		Т		Т		S	E	D	1	M	Ε	N	Т	21
22				Z			Α		S		0					Α		S	22
23		F	U	E	L	1	N	G			1					R		0	23
24							K				L					-		U	24
25															S			R	25
26															P			С	26
27											P	Ε	S	Т	С	- 1	D	Е	27
28															С				28
29																			29
	Α	В	С	D	Ε	F	G	Н	1	J	K	L	M	N	0	Р	Q	R	



Ac	ross	Clue
G	11	Municipal Separate Storm Sewer System
Α	14	Clean Water Act
Α	19	Runoff that degrades the nation's waters more than industry.
Α	21	Produce F5 down
В	23	When doing this, park vehicles close to the pump.
С	3	One of the 5 L's
С	1	We want to limit the amount of exposure to these.
Ε	5	Anything that gets into the environment for a purpose other than intended
F	14	Nutrients in lakes can damage this.
G	16	Can come from improperly maintained septic- systems.
Н	9	One of the 5 L's
K	27	The less we use the better
K	21	Number one pollutant in Nebraska waterways.
K	18	Part of MS4 Acronym
L	8	Small quantities cause cancer.
L	14	Supports NDOR State-wide storm water management program.
М	3	Pollutant Discharge Elimination System
M	11	Was found in the Cuyahoga River in the 1960's

Do	own	Clue
D	14	Place in a labeled 55-gallon drum.
Ε	3	Best Management Practices
В	16	Another name for soil
Т	3	40% of all impaired waters are affected solely by this source.
Ο	3	Storm water flows to a
R	11	Environmental Protection Agency
L	16	One tablespoon to 10,000 gallons makes water undrinkable.
- 1	14	Affects human skin, liver and nervous systems.
F	5	Makes up 25% of the atmosphere by volume.
R	17	Industry and Agriculture is this type of pollutant.
K	3	Can carry ground sediments to lakes and streams.
Н	3	Excess could end up in right-of-ways, across facilities, in waterways.
G	21	A form of storage container.
С	12	Creates grass clippings, which need to be confined.
K	21	Contains sediments.
О	25	Spill Prevention Control and Countermeasures
С	1	A site to store recyclables.
Р	19	The type of water we want to drink.
G	11	A form of PPE.
Р	9	One type of sediment.